

Claims

1. A strap fastener set including a strap fastener for winding a first strap and a gauge provided between the strap fastener and a second strap, wherein the gauge includes:
 - a cylinder tied with the second strap, the cylinder including a window defined therein and a scale provided thereon along the window;
 - a first ring secured to the cylinder;
 - a spring put in the cylinder;
 - a rod extending past the ring through the spring for connection with the strap fastener; and
 - a second ring secured to the rod so that it is moved relative to the cylinder so as to compress the spring against the first ring as a tensile force is exerted on the straps, the second ring including an indicator formed thereon for cooperation with the scale in order to provide a reading of the tensile force.
2. The strap fastener set according to claim 1 wherein the first ring is integrally formed on an internal side of the cylinder.
3. The strap fastener set according to claim 1 wherein the second ring is integrally formed on the rod.
4. The strap fastener set according to claim 1 including a joint for connecting the rod with the strap fastener.
5. The strap fastener set according to claim 4 wherein the joint includes a middle section pivotally connected with the rod and two terminal sections pivotally connected with the strap fastener.
6. The strap fastener set according to claim 1 including a third ring

1 secured to the cylinder for connection with the second strap.

2 7. The strap fastener set according to claim 6 wherein the third ring is
3 integrally formed on an internal side of the cylinder.

4 8. The strap fastener set according to claim 6 including a bolt secured
5 to the third ring for connection with the second strap.

6 9. The strap fastener set according to claim 8 wherein the bolt is
7 integrally formed on to the third ring.

8 10. The strap fastener set according to claim 8 including a joint for
9 connecting the second strap with the bolt.

10 11. The strap fastener set according to claim 8 wherein the joint includes
11 a middle section pivotally connected with the bolt and two terminal
12 sections for supporting a pin to which the second strap is tied.

13 12. The strap fastener set according to claim 1 wherein the straps are
14 integrated with each other.

15 13. The strap fastener set according to claim 1 wherein the strap fastener
16 includes base, a reel pivotally put on the base, a lever pivotally
17 installed on the reel, two ratchet wheels secured to the reel, a first
18 detent movably installed on the base for engagement with the ratchet
19 wheels and a second detent movably installed on the lever for
20 engagement with the ratchet wheels, and the lever can be pivoted
21 relative to the base so as to provide a one-way rotation of the reel via
22 cooperation of the detents with the ratchet wheels.

23 14. A strap fastener set including a strap fastener for winding a first strap
24 and a gauge tied with a second strap, wherein the gauge includes:
25 a cylinder tied with the second strap, the cylinder including a window

1 defined therein and a scale provided thereon along the window;
2 a cap including a cylindrical portion secured to the cylinder and an
3 annular portion formed on the cylindrical portion;
4 a spring put in the cylinder;
5 a rod extending past the annular portion of the cap via the spring for
6 connection with the strap fastener; and
7 a ring secured to the rod so that it is moved relative to the cylinder so
8 as to compress the spring against the annular portion of the cap as a
9 tensile force is exerted on the straps, the ring including an indicator
10 formed thereon for cooperation with the scale in order to provide a
11 reading of the tensile force.

- 12 15. The strap fastener set according to claim 14 wherein the cylindrical
13 portion of the cap is integrally formed on an internal side of the
14 cylinder.
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